CPCA

the PBS archive add on
for Profit Center Line Items

Manual Part C

- Display / Evaluation Transactions -

Compatible with
SAP R/3 4.x
SAP ERP 5.0
SAP ERP 6.0

SAP® Certified
Powered by SAP NetWeaver®

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Introduction to the PBS ILM Concept

Information Lifecycle Management

Information Lifecycle Management (ILM) means the administration of information related to the time when it is used, taking into account its total costs and compliance. A conclusive, efficient ILM concept must, as a result, control data growth, manage retention rules, and also ensure compliant data storage. Furthermore, an easy access to archived data is decisive and, for example, its transfer during internal and external audits.

PBS ILM Concept

PBS software provides existing SAP customers extensive solutions to put into practice the requirements that were described above for a stringent and successful ILM concept. PBS is considered as an expert for complex, integrated data accesses to archived and database data and meanwhile, also to data that is located on decommissioned SAP systems. In addition to classical SAP data archiving, SAP BI-specific nearline storage is also supported.

PBS archive add ons®

PBS archive add ons always rely on SAP archiving having been carried out successfully. This is the basis for a permanently high-performing SAP system. In principle, you can indeed retain posted documents in the SAP database for a very long time due to a large database capacity. Depending on the document volume, this may result, however, in massive performance losses and, sooner or later, heavily increasing operation costs. The daily backup becomes difficult for large data stocks, for example.

A convenient display and evaluation of archived transaction data – as the SAP user is used to for database data – can often only be carried out in a very restricted manner using SAP standard means depending on the application module. This is particularly the case for large archive data stocks. The PBS archive add ons can be used here. They can be provided for nearly all SAP modules and release levels, and start with a "C" (for Complete) in their description. For example, PBS archive add on CCOPA for the SAP module COPA.

Using the PBS archive add ons you can quickly and easily access your archived data even after data archiving during your day-to-day business. The unrestricted data access is realized by an intelligent indexing concept. It extends the SAP archive infrastructure components and integrates itself optimally with SAP archiving. Archive data that has been indexed can still be provided after a release upgrade immediately, without restrictions, and without migration effort. The PBS archive index is stored in sequential files of the SAP file system in the same way as the SAP archive data. Afterwards, you can access the archive data online via the familiar

transactions. The SAP user can display the data from the SAP database and the archive data simultaneously via the PBS archive add on index. For the user, it seems as though the archived data is still in the SAP database.

The deep integration of the PBS transactions also enables direct navigation to subsequent and previous documents both within the indexed SAP module as well as to linked documents from other SAP modules. This applies not only for resident but also without restrictions for archived data. The benefit for the user increases the more PBS archive add ons are used.

The potential benefits of the ILM concept raises substantially if you take into account the savings that result from the SAP mirror systems. There are usually at least two of them meaning that the saved disk storage can be tripled by performing data archiving. Thus, time is saved for the data backup.

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1 Introduction

The ***PBS archive add ons*** are constructed in modular form and cover the application modules FI, SD, MM, CO etc. with a special program package for exactly this application. You can easily see from the name which *PBS archive add on* belongs to which SAP module: CFI, CSD, CMM, CCO etc. All *PBS archive add ons* have in common that they can be easily installed in the SAP R/3 system via the SAP transport utilities **"tp"** and "SAINT". For installation details of the *PBS archive add ons* please see the specific installation manual (manual part A).

This manual on the display transaction and application programs was written to support you when using the *PBS archive add on CPCA*. Please see the administration manual (part B) regarding construction and administration of the *PBS archive add on CPCA*.

The modular user manual of each *PBS archive add on* is composed of partial manuals:

- Part A: Installation
- Part B: Administration, Archive Construction and Maintenance
- Part C: Application Programs / Transactions
- Part D: Migration Support R/2 => R/3 (if available)

There are additional manuals for the PBS utilities: Conversion Tool, Archive Browser, Translation Tool.

Should you have questions regarding the installation of the *PBS archive add ons* or if you have problems when installing the software please call directly the **Service Hotline of PBS Software GmbH**:

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Release Compatibility

The ***PBS archive add on CPCA*** discussed in this manual runs with the basis programs of SAP AG, D-69190 Walldorf/Baden, **system R/3, Release 4.0, 4.5, 4.6, R/3 Enterprise, mySAP ERP 2004, mySAP ERP 2005, correction levels a to z**.

2 Display Transactions

2.1 Overview

The archive add on CPCA enables profit center line items, which were already removed from the R/3 database during reorganization with the transaction SARA, to be available to the user for online processing. In version 1.1, the following transactions are available, which read both line items from the operative tables of the SAP system as well as line items from the PBS index.

PBS	SAP	Explanation of the transactions
/PBS/KE5Z	KE5Z	Profit Center: Actual line items
/PBS/KE5Y	KE5Y	Profit Center: Plan line items
/PBS/2KEE	2KEE	Profit Center: Totals Records
/PBS/CPCA		CPCA area menu

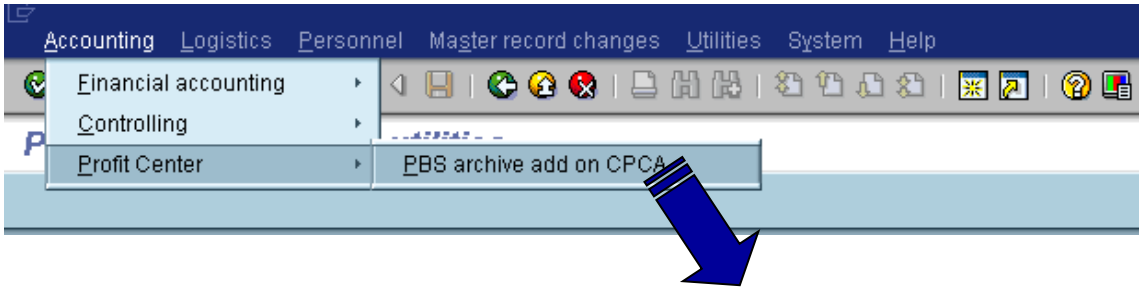
Table 1: Transactions of the *PBS archive add on CPCA* with the corresponding original SAP transactions

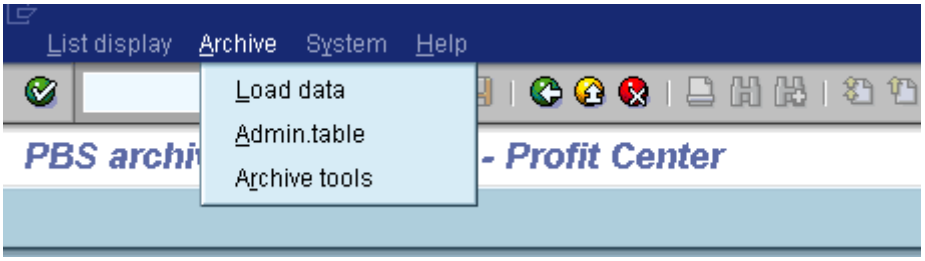
All transactions that display the archived data are based on the standard SAP transactions. This ensures that users are immediately able to work with the archive transactions without requiring training first. The names of the archive transactions are shown in Table 1. The transactions can be started by entering the PBS transaction code, but can also be incorporated in the Profit Center menu.

In the list display, all line items that originate from the *PBS archive add on CPCA* are marked with an asterisk '*'.

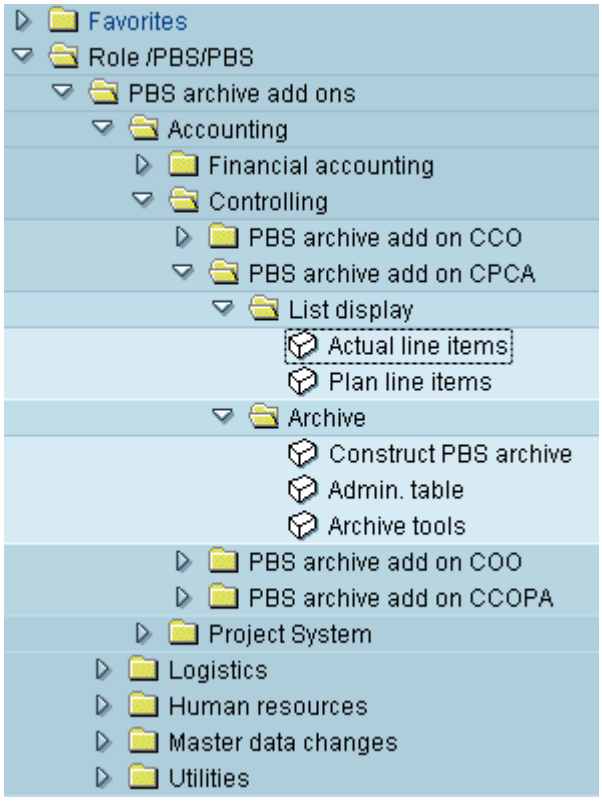
You do not have to remember the names of the transactions because all PBS transactions can also be called up via the menu.

If you are using several PBS program packets, you can start the transactions in releases 4.0 to 4.5 via the main menu transaction **/PBS/MAIN** and from there via the menu path Accounting ⇨ Profit Center in the sub-menu for control of the PBS archive CPCA. If you are only using the PBS archive CPCA, this can also be started directly via the menu transaction **/PBS/CPCA**.





From 4.6, the main menu /PBS/PBS and the menu /PBS/CPCA (Profit Center functions) can be incorporated in the existing activity group (4.6B) and/or roles (from 4.6C).



2.2 Transaction “Actual Line Items”

In this section the archive transaction /PBS/KE5Z, which displays the actual line items, is discussed as way of an example.

Diagram 1 shows the request screen of transaction /PBS/KE5Z.

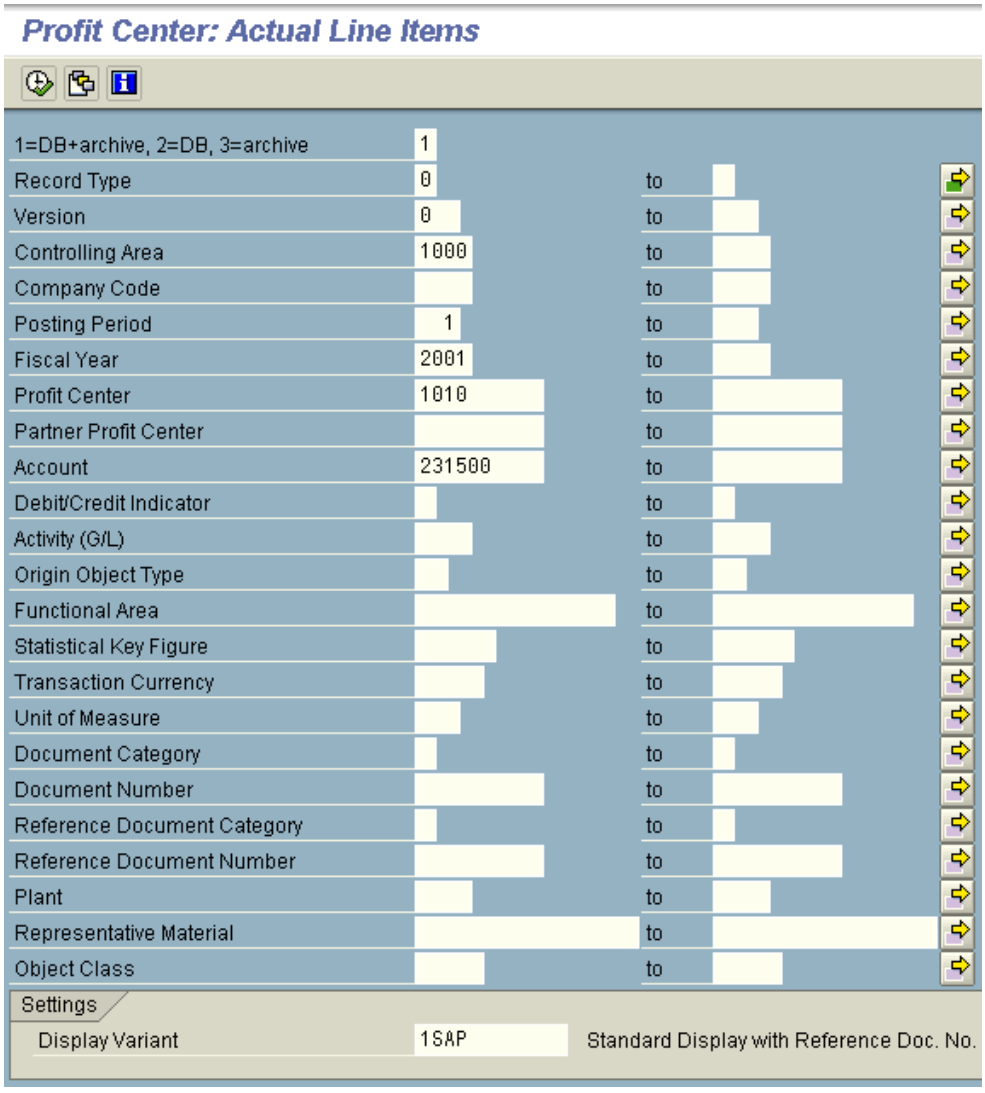
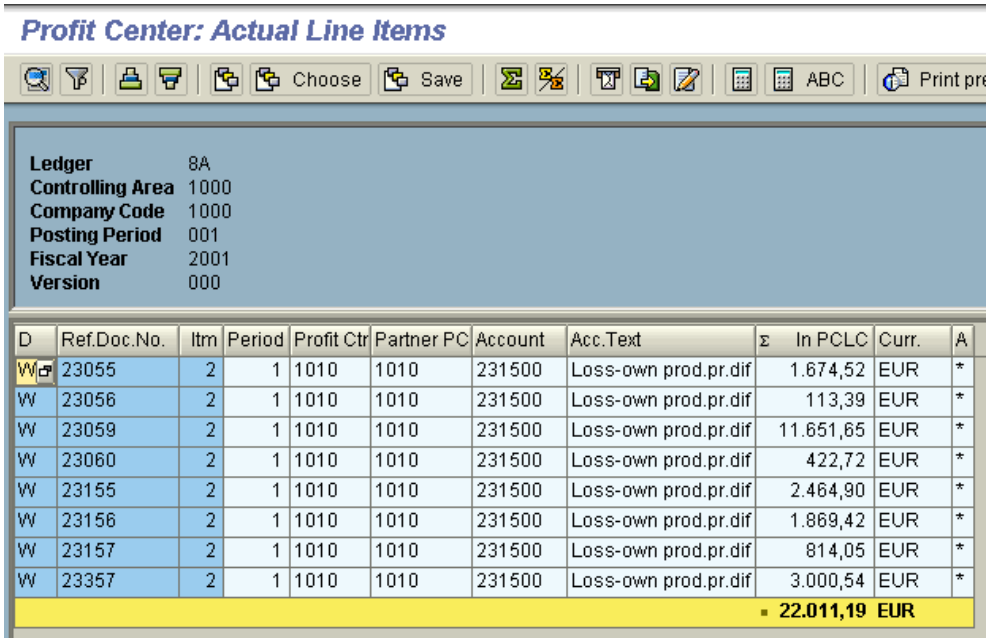


Diagram 1: Initial screen of transaction /PBS/KE5Z

In addition to the standard delimitations, the screen mask contains an addition delimitation that is specifically for the archive add on.

The transaction /PBS/KE5Z can display data from the archive and the SAP database. The parameter '1=DB (=Database) + archive, 2=DB, 3=Archive' can be used to select the data source. By entering the appropriate number 1, 2, or 3, actual line items are either displayed from the R/3 database, from the archive, or from both data sources. For example, if you want to search for old transactions, this parameter should be set to '3', so that database accesses to the SAP files can be avoided, thus enabling the general load on the system to be reduced.

If all delimitations have been entered correctly, the system displays a list of the required actual line items. Diagram 2 shows such a list.



D	Ref.Doc.No.	Itm	Period	Profit Ctr	Partner PC	Account	Acc.Text	Σ	In PCLC	Curr.	A
W	23055	2	1	1010	1010	231500	Loss-own prod.pr.dif		1.674,52	EUR	*
W	23056	2	1	1010	1010	231500	Loss-own prod.pr.dif		113,39	EUR	*
W	23059	2	1	1010	1010	231500	Loss-own prod.pr.dif		11.651,65	EUR	*
W	23060	2	1	1010	1010	231500	Loss-own prod.pr.dif		422,72	EUR	*
W	23155	2	1	1010	1010	231500	Loss-own prod.pr.dif		2.464,90	EUR	*
W	23156	2	1	1010	1010	231500	Loss-own prod.pr.dif		1.869,42	EUR	*
W	23157	2	1	1010	1010	231500	Loss-own prod.pr.dif		814,05	EUR	*
W	23357	2	1	1010	1010	231500	Loss-own prod.pr.dif		3.000,54	EUR	*
									22.011,19	EUR	

Diagram 2: List for transaction /PBS/KE5Z

The list screen is structured in the same way as transaction KE5Z, but is extended to include the archive indicator.

The last column shows you whether the display order is located in the archive add on or in the SAP database. If it is located in the archive, the last column should contain the indicator '*'. Otherwise this column is empty. Diagram 2 therefore shows both resident data and data from the archive add on.

2.3 Transaction "Totals Records"

The transaction /PBS/2KEE "Totals records" does not read any data records from the archive. The archiving object EC_PCA_SUM ("Profit Center invoice: Totals Records") is not supported by the PBS archive add on CPCA. If you double-click in an output table line you can branch to the transactions /PBS/KE5Z or /PBS/KE5Y. The PBS parameter = 1 is used for the call up. Thus data from the database and the archive is displayed for the line items.

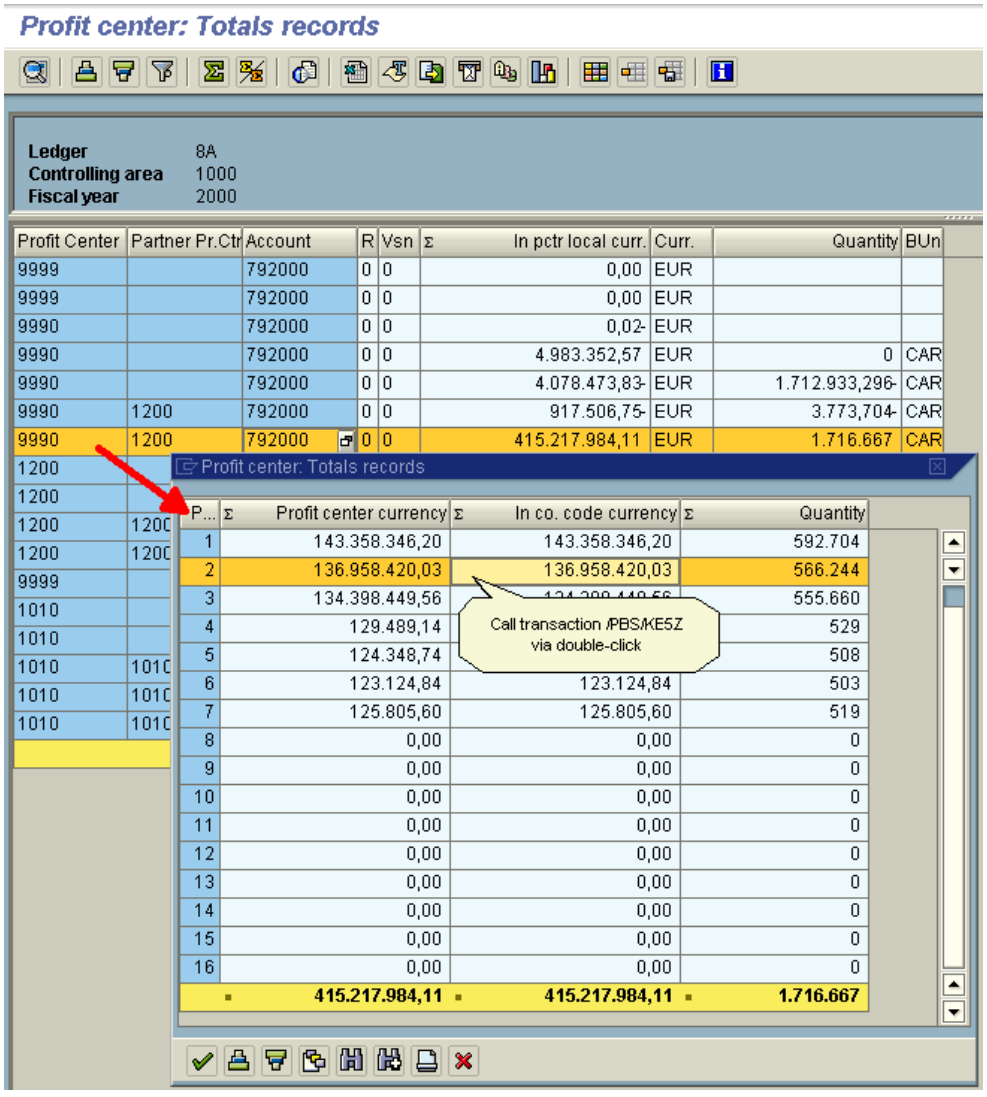


Diagram 3: Calling the transaction /PBS/KE5Z from /PBS/2KEE

3 Modification of Customer Reports

3.1 Access via Conversion Tool

ABAP reports, which access the R/3 database via the SELECT command, can be modified using the PBS Conversion Tool in such a way that they can also access data from the PBS archive add on. For this, the function module **/PBS/SELECT_INTO_TABLE** is used. It accesses the archive add on and returns the data records of the required table in an internal table.

The features and use of the **PBS Conversion Tools** is described in a separate manual.

3.2 Access via Function Modules

As shown in Chapter 3.1 the PBS Conversion Tool uses the function module **/PBS/SELECT_INTO_TABLE** to select the archive. This function module is supplemented by the following two function modules:

- **/PBS/CPCA_ARCHIVE_SELECT_GLPCA**
- **/PBS/CPCA_ARCHIVE_SELECT_GLPCP**

If you adapt your program manually, these function modules should be preferred to the /PBS/SELECT_INTO_TABLE as the selection criteria is more flexible. In addition, the creation and the transfer of selection criteria is simpler. The structure "RSDS_TRANGE" is used for the transfer. The structure is set up using the following function modules:

- **FI_UTIL_MAKE_TRANGE**
- **/PBS/CPCA_MAKE_TRANGE_REP_SEL**

The dynamic selection criteria of a logical database can be transferred directly. Detailed examples are provided in the PBS archive access tutorial (transaction PBS/PBS/UTIL_ACCESS_ARC).

4 Report Painter Reports

In the generated Profit Center invoice reports you can go to transactions KE5Z and KE5Y. If you wish to go to the corresponding PBS transactions, it is necessary to change a reference table. Please contact your system administrator (see CPCA manual part B).

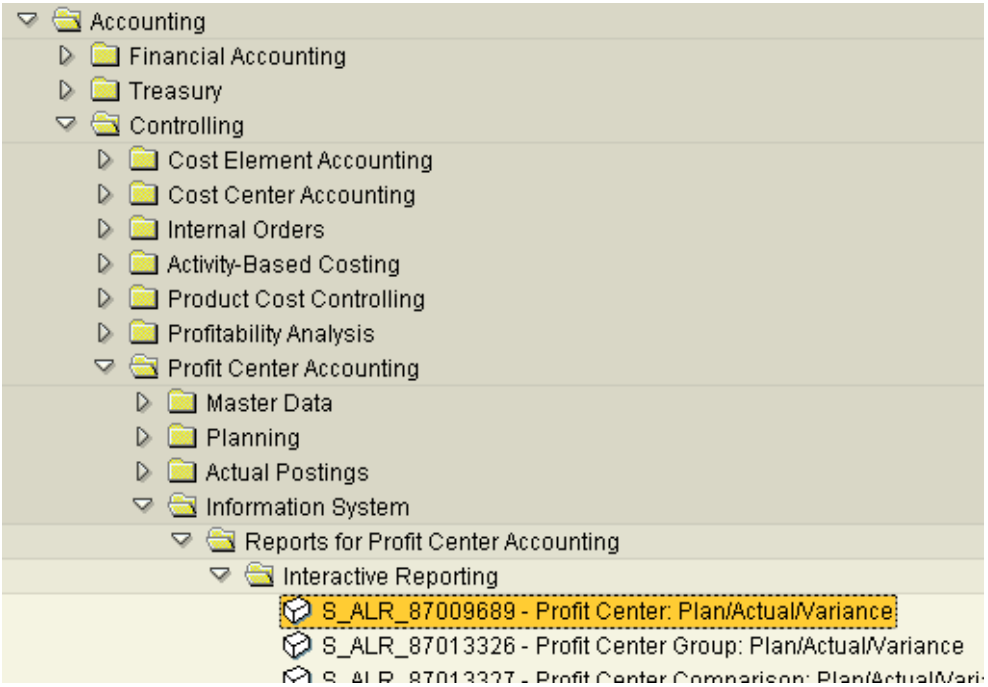


Diagram 4: Generated Report Painter reports

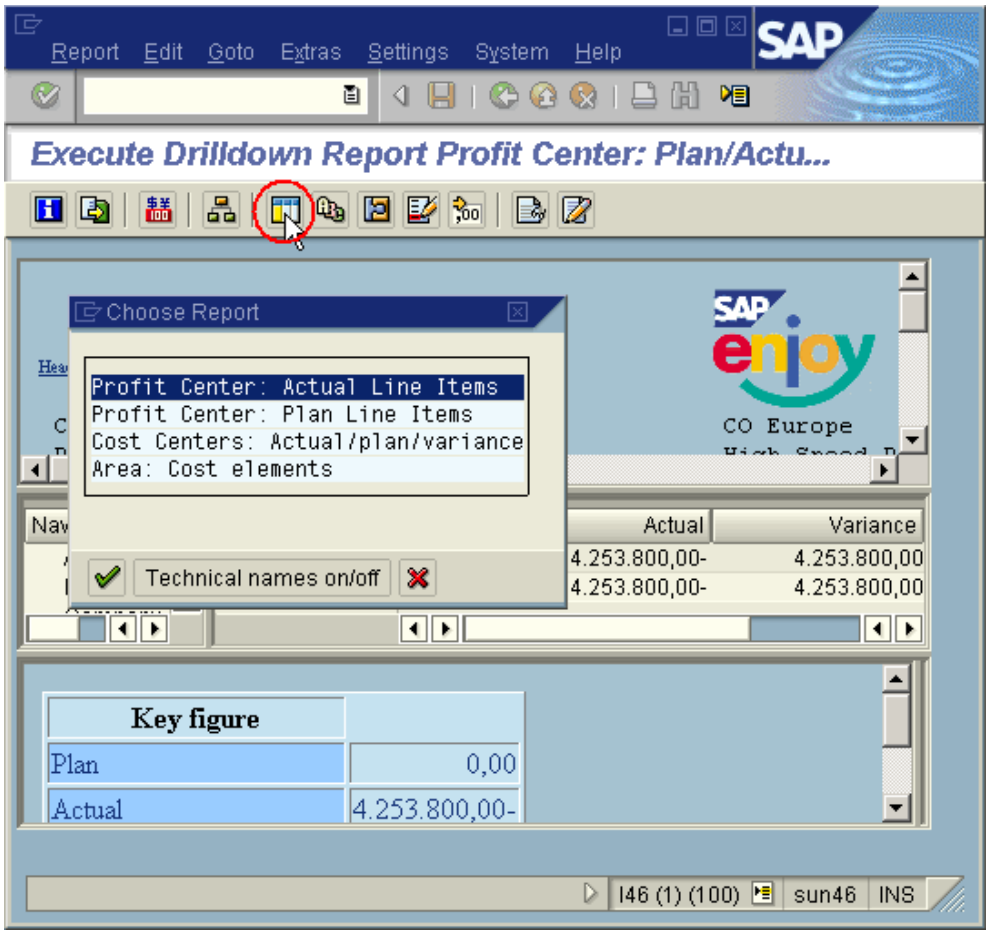


Diagram 5: Branching to line item display

The technical name can be displayed in the report selection if you wish to see the transaction in which it is branched to.

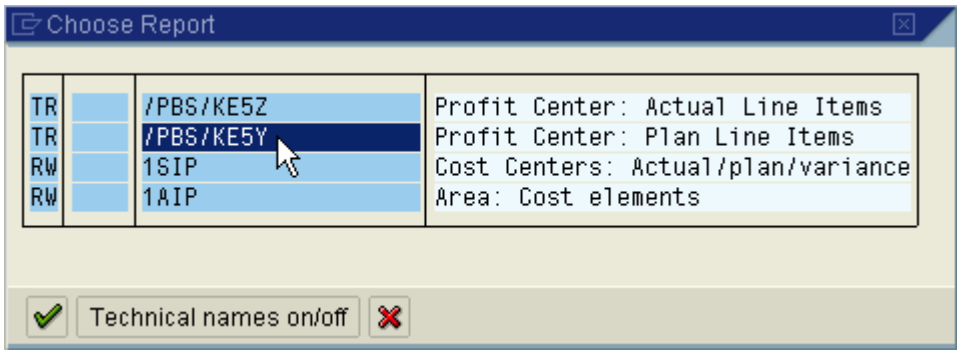

Choose Report
TR /PBS/KE5Z Profit Center: Actual Line Items
TR /PBS/KE5Y Profit Center: Plan Line Items
RW 1SIP Cost Centers: Actual/plan/variance
RW 1AIP Area: Cost elements
Technical names on/off

Diagram 6: Is the PBS transaction used?